

7-26-74 Subsequent Report of  
Converting To Water Injection

FILE NOTATIONS

Entered in NID File

☒

Checked by Chief

*RDS*

Entered On S R Sheet

☐

Copy NID to Field Office

☒

Location Map Pinned

☒

Approval Letter

☒

Card Indexed

☒

Disapproval Letter

☐

IWR for State or Fee Land

☐

COMPLETION DATA:

Date Well Completed

*6-23-60*

Location Inspected

☐

OW

☒ WW

TA

Bond released

☐

GW

OS

PA

State of Fee Land

☐

LOGS FILED

Driller's Log

*7-8-60*

Electric Logs (No.)

*3*

E

I

E-I

GR

GR-N

Micro

Lat

Mi-L

Sonic

Others

*Section Gauge*

(SUBMIT IN TRIPLICATE)

Indian Agency \_\_\_\_\_

UNITED STATES

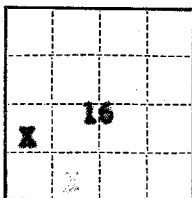
Window Rook

DEPARTMENT OF THE INTERIOR

Allottee **Navajo**

GEOLOGICAL SURVEY

Lease No. **14-20-603-359**



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 23, 19 60

Navajo 'J'

Well No. **13-16** is located **2130** ft. from **N** line and **660** ft. from **W** line of sec. **16**

**NW SW Section 16**  
(¼ Sec. and Sec. No.)

**41S**  
(Twp.)

**25E**  
(Range)

**SLEB**  
(Meridian)

**McElmo Creek**  
(Field)

**San Juan**  
(County or Subdivision)

**Utah**  
(State or Territory)

The elevation of the ~~land surface~~ above sea level is **4484** ft. **ungraded ground**

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

**Propose to drill well to test Paradox Formation at a depth of approximately 5480'.**

**Will set approximately 90' of 13-3/8" conductor pipe with cement circulated to surface.**

**Will set approximately 1000' of 8-5/8" surface pipe with cement circulated to surface.**

**Will set 5-1/2" casing through any commercial production encountered. 5-1/2" casing will be cemented with 300 sacks.**

**Verbal approval by Bill Shoger 5-23-60**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **The Superior Oil Company**

Address **P.O. Drawer 'G'**

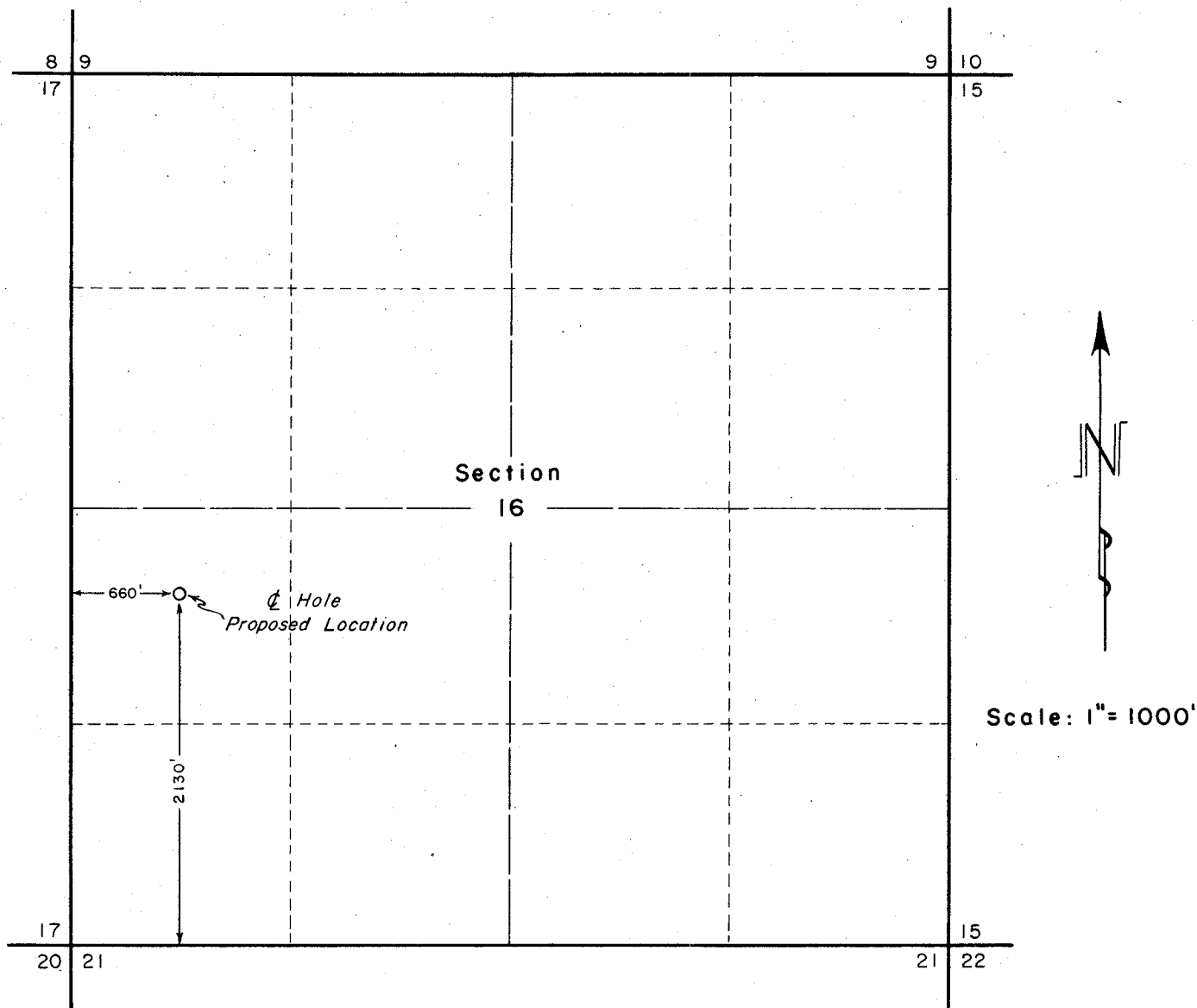
**Cortez, Colorado**

By

**D.D. Kingman**  
**Engineer**

Title

# CERTIFICATE OF SURVEY



## WELL LOCATION: The Superior Oil Co. — Navajo "J" 13-16

Located 660 feet East of the West line and      feet North of the South line of Section 16,  
 Township 41 South,      Range 25 East,      Salt Lake Base & Meridian.

Existing ground elevation determined at 4484 feet based on U.S.G.S. datum.



I certify the above plat represents a survey  
 made under my supervision and is accurate to the  
 best of my knowledge and belief.

*Elmer M. Clark*

ELMER M. CLARK  
 Registered Land Surveyor  
 Utah No. 2307

Revised April 27, 1960

**E.M. CLARK & ASSOCIATES**  
 Durango, Colorado

March 2, 1960

May 27, 1960

The Superior Oil Company  
P. O. Drawer, 'G'  
Cortez, Colorado

Attention: D. D. Kingman, Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo 'J' 13-16, which is to be located 2130 feet from the south line and 660 feet from the west line of Section 16, Township 41 South, Range 25 East, SLEH, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,  
EXECUTIVE SECRETARY

CBF:awg

cc: P. T. McGrath, Dist. Eng.  
U. S. Geological Survey  
Farmington, New Mexico

4

THE SUPERIOR OIL COMPANY 36.55075%  
Injection Well - Area #4

McELMO CREEK UNIT #R-23  
2130' FWL, 660' FWL  
NW SW Sec. 16, T41S, R25E  
San Juan County, Utah

FIELD: GREATER ANETH

KB: 4497' DF: 4496' GL: 4483' TD: 5480' PBTD: 5447' TLD: 13.50' TOC: 4215'

SPUDDED: 5-30-60

COMPLETED: 6-23-60

INJECTION ZONE: Ismay, Desert Creek Zone II

PERFS: Ismay - 5244-48', 5251-57', 5263-76' (2 jets/ft)  
Zone II - 5344-92', 5395-5402' (4 jets/ft)

CASING: 13-3/8" 35.6# R-1 & 2 SW, Armco w/ 125 sx 85'  
8-5/8" 24# J-55 R2 8R ST&C w/900 sx 1353'  
5-1/2" 14# 8R R2 J-55 ST&C w/ 300 sx 5480'

TUBING: 2-3/8" 4.7# J-55 Nulock, w/ TK-75 & sc collars. 5201'

PACKER: Baker Lok-set at 5197'.

PUMP'G EQUIP: Injection equipment.

WELL HEAD: 6" Series 600 National Type B.

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6-23-60 Perf'd 5344-92', 5395-5402', trt'd w/ 8000 gal reg acid.  
FP 4900#. ISIP 3800#.

11-18-69 Trt'd 5344-5402' w/ 17,000 gal dispersion + 9000 gal 28% acid.  
FP 1000#, ISIP 0#.

7-8-74 Perf'd Ismay at intervals 5244-76', acidized w/ 5000 gal 28%  
acid.- FP 3500#, ISIP 3400#.  
Converted to water injection.

INITIAL WELL TEST

McELMO CREEK UNIT #R-23

DATE June 27, 1959

OIL BBL/DAY 159

OIL GRAVITY 40.9

GAS CU.FT/DAY \_\_\_\_\_

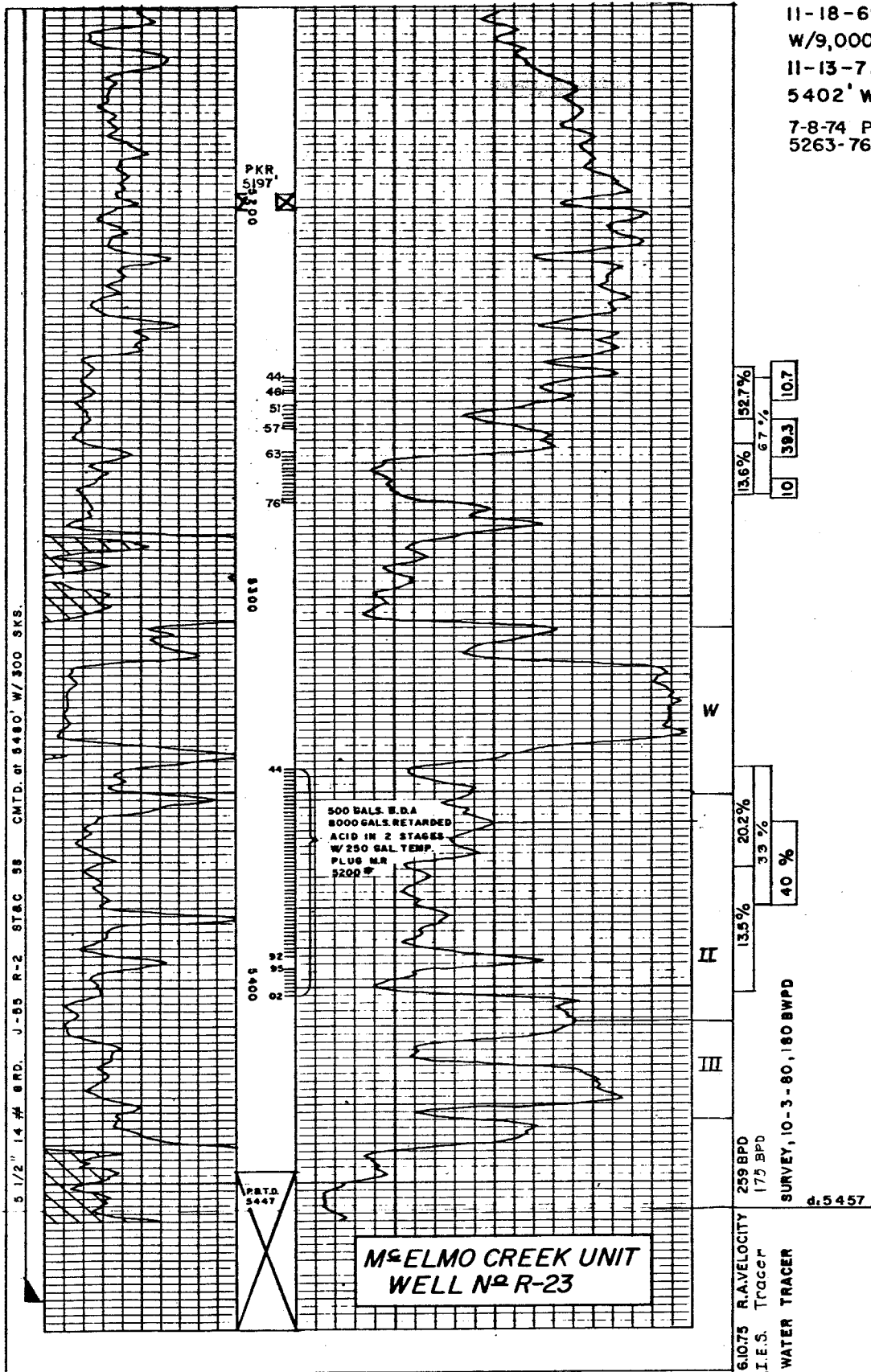
GAS-OIL RATIO CU/FT/BBL \_\_\_\_\_

WATER BBL/DAY 0

PUMPING/FLOWING F

CHOKE SIZE 25/64

FLOW TUBING PRESSURE 200



11-18-69: Treated perf's 5344-5402'  
W/9,000 gals 28% acid.

11-13-72: Treated al perf's 5344-  
5402' W/500 gals 15% reg acid.

7-8-74 PERFD ISMAY 5244-48, 5251-57 &  
5263-76. TREAT. ISMAY W/5000 GAL 28%.

McELMO CREEK UNIT  
THE SUPERIOR OIL CO. OPERATOR

NW SW. SEC.16, T41S, R25E.  
SAN JUAN COUNTY, UTAH.  
ELEV. 4497' K.B. T.D. 5480

Revision: 8-31-78

WATER INJECTION

Well No. R-23.

McElmo Creek Unit

ATTACHMENT I

RULE I-5: Application for Approval of Class II Injection Wells

(a) Well Data Sheets.

- (b) (1) Plat #1.  
(2) Well Data Sheets.  
(3) Well Data Sheets & Logs.  
(4)

i. The average intervening thickness is 4000' between the existing injection interval and the deepest fresh water sand.

ii. Maximum Surface Pressure: 2800 psig.  
Maximum Rate: 4000 BWPd.

<u>FORMATION</u>	<u>DEPTH</u>	<u>LITHOLOGY</u>
Chinle	1300' avg.	Shale
DeChelly	2350' avg.	Sandstone
Organ Rock	2600' avg.	Shale
Hermosa	4400' avg.	Limestone
Upper Ismay	5300' avg.	Limestone
Lower Ismay	5370' avg.	Limestone
Gothic	5450' avg.	Shale
Desert Creek	5460' avg.	Limestone
Chimney Rock	5550' avg.	Shale

(5)

(i) A throttling valve is installed on the wellhead to control injection rates and pressures.

(ii) The source of injection water is Superior's production wells within the McElmo Creek Unit. The wells produce from the Ismay and Desert Creek formations with approximate depths of 5300' and 5460' respectively.

(iii) The analysis of injection water is as follows: (as parts per million).

PH: 6.5	Ca: 13770 ppm	SO4: 25 ppm
CL: 16700 ppm	Mg: 11421 ppm	H2S: 30 ppm
Fe: 3 ppm	HCO3: 109.8 ppm	Na: -
CaCO3: 18470 ppm	CO3: -	Specific Gravity: 1.0553



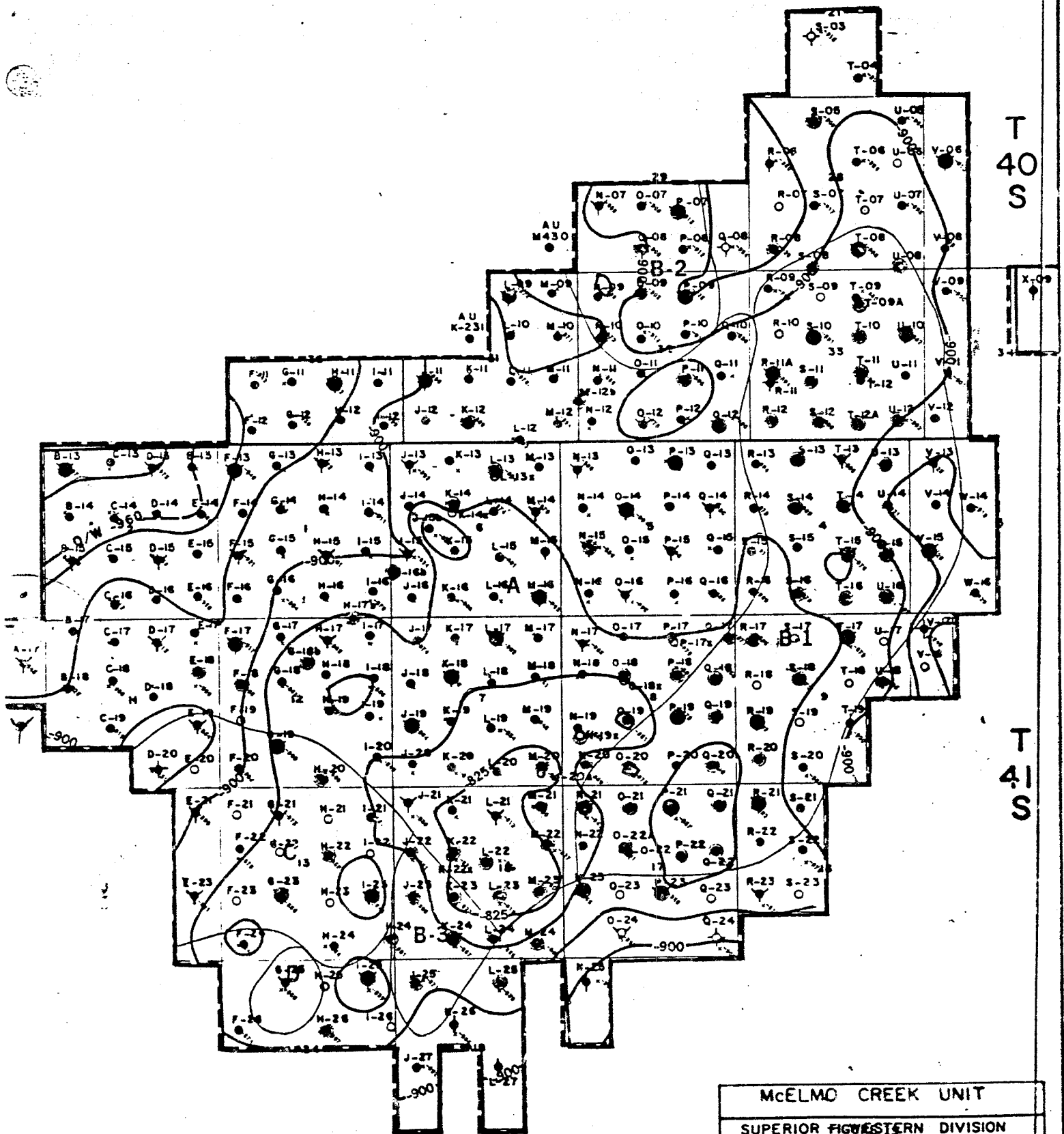
McElmo Creek Unit

(3) Cont.

- (iv) The injection zones are the Ismay and Desert Creek formations. Both zones are carbonate formations consisting of limestone, anhydrite and dolomite. The formations extend throughout the Paradox Basin and are underlain by the Chimney Rock Shale and are overlain by the Hermosa Limestone.
- (v) Fresh water zones (Morrison, Bluff, Entrada) range from 0 to 1300' with Entrada being the deepest and somewhat saline.
- (vi) The analysis of formation water (Desert Creek) is as follows: (as parts per million).
- |                  |                |                          |
|------------------|----------------|--------------------------|
| PH: 6.6          | Ca: 17410 ppm  | SO4: 33 ppm              |
| CL: 34600 ppm    | Mg: 11518 ppm  | H2S: 10 ppm              |
| Fe: 1.5 ppm      | HCO3: 48.8 ppm | Ba: -                    |
| CaCO3: 22150 ppm | CO3: -         | Specific Gravity: 1.0902 |
- (6) To assure that injection is confined to intervals intended to receive the disposed water, wireline diagnostic surveys are run periodically to determine whether any escapement is taking place. If such information is discovered, the disposal well will be shut-in until proper measure can be taken. Casing pressure readings are made regularly to verify that no tubing or packer leaks have developed. If such leaks develop, the well will be shut-in until proper repairs can be made.
- (7) N/A.
- (8) The Division will be notified of the date and time to monitor the mechanical integrity test.
- (9) N/A.
- (10) N/A.

R24E

R25E



## LEGEND

- FUTURE LOCATION
- DRILLING WELL (STATUS)
- OIL WELL
- ⊗ WATER INJECTION WELL
- ⊙ DUAL SERVICE, INJ/PROD

O/W CONTACT -960

0 2000' 4000'

## McELMO CREEK UNIT

SUPERIOR FIELD - WESTERN DIVISION

McELMO CREEK UNIT  
SAN JUAN COUNTY, UTAHLAND MAP  
SUPERIOR OIL - WESTERN DIVISIONBY: ~~STRUCTURED~~  
TOP OF

McELMO CREEK LIME STONE, DEN

DATE: 4-14-70 ZONE 2 DRAWING NO.

BY:	SCALE:
DATE:	C.I.: 25ft.
CHECKED:	DRAWN BY:

# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Superior Well No. McElmo Creek Unit R23  
 County: San Juan T 41S R 25E Sec. 16 API# 43-037-15977  
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<u>✓</u>	<u>    </u>
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	<u>    </u>
Schematic Diagram	<u>✓</u>	<u>    </u>
Fracture Information	<u>    </u>	<u>✓</u>
Pressure and Rate Control	<u>✓</u>	<u>    </u>
Adequate Geologic Information	<u>✓</u>	<u>    </u>

Fluid Source

Desert Creek - Jm

Analysis of Injection Fluid

Yes ✓ No      TDS 60,000 +

Analysis of Water in Formation  
to be injected into

Yes ✓ No      TDS 70,000 +

Known USDW in area

Morajo-Chino Depth 1300

Number of wells in area of review

6 Prod. 5 P&A 0

Water 0 Inj. 1

Aquifer Exemption

Yes      NA ✓

Mechanical Integrity Test

Yes      No ✓

Date      Type     

Comments:       
      
    

Reviewed by: 

X	16	

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency Window Rock  
Allottee Navajo  
Lease No. 14-20-603-359

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well No. 13-16 is located 2130 ft. from SW line and 660 ft. from W line of sec. 16  
NW SW Section 16 (1/4 Sec. and Sec. No.) 41S (Twp.) 25E (Range) 81W (Meridian)  
McElmo Creek (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the ~~datum~~ above sea level is 4498 ft. K.B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: 5-30-60  
Completed: 6-23-60  
T.D.: 5480' FBTD: 5447'  
Casing: 13-3/8" 35.6# set at 85' with 125 sacks  
8-5/8" 24# set at 1353' with 900 sacks  
5-1/2" 14# set at 5480' with 300 sacks

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company  
Address P.O. Drawer 'Q'  
Cortez, Colorado  
By D.D. Kingman  
Title Engineer

ORIGINAL SIGNED BY  
D. D. KINGMAN

**Electric Log Tops:**

De Chelly	2325'	Gothic Shale	5284'
Organ Rock	2525'	Desert Creek	5306' (-808)
Hermosa	4280'	Chimney Rock	5441'
Ismay	5132'		

**Drill Stem Tests:** None

**Perforations:** 5344'-5392', 5395'-5402'

**Treatments:** (perfs as above)

6-22-60 500 gallons BDA. Maximum pressure 5200#/2200#

6-23-60 8,000 gallons retarded acid in 2 equal stages using one 250-gallon temporary plug between stages. Maximum pressure 4900#/2200#

**Tubing:**

2-1/2" 6.5# J-55 R-2 8Rd EUE hung	5432'
Pump Shoe	5389'
Tubing Anchor	5324'
R & L Nipple	5318'

10' perf'd pup one joint off bottom with gas anchor. Bottom joint bull plugged.

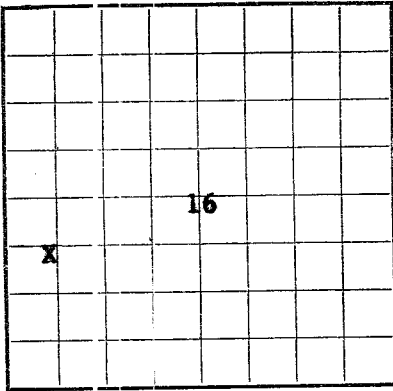
**Initial Production:**

6-26-60 Flowed 159 barrels in 24 hours.  
40.9° gravity, 0.2% cut, 140#/480#, 25/64" choke

0981 8700

Form 9-330

U. S. LAND OFFICE Santa Fe  
SERIAL NUMBER 14-20-603-359  
LEASE OR PERMIT TO PROSPECT Navajo



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Superior Oil Company Address P.O. Drawer 'G' - Cortez, Colorado  
Lessor or Tract Navajo 'J' Field McElmo Creek State Utah  
Well No. 13-16 Sec. 16 T. 41S R. 25E Meridian SLBM County San Juan  
Location 2130 ft. N. of S Line and 660 ft. E. of W Line of Section 16 Elevation 4498 K.B.  
XX XX (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

ORIGINAL SIGNED BY  
D. D. KINGMAN

Date July 6, 1960

Title D.D. Kingman  
Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling May 30, 1960 Finished drilling June 18, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5132 to 5284 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 5306 to 5441 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	85.6	8		125					Conductor
8-5/8	1353	8		900					Production
5-1/2	5480	8		300					Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	85 <sup>1</sup>	125	Circulated to surface		
8-5/8	1353 <sup>1</sup>	900	Circulated to surface		
5-1/2	5480 <sup>1</sup>	300	Pump & plug		

PLUGS AND ADAPTERS

Heavy plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

# PLUGS AND ADAPTERS

Heaving plug—Material

Length

Depth set

Adapters—Material

Size

# SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

# TOOLS USED

Rotary tools were used from

Surface

feet to

5480

feet, and from

feet to

feet

Cable tools were used from

feet to

feet, and from

feet to

feet

# DATES

19

Put to producing

June 23

1960

The production for the first 24 hours was

159

barrels of fluid of which

99.8

% was oil;

%

emulsion;

0.2

% water; and

%

sediment.

Gravity, °Bé.

40.9

If gas well, cu. ft. per 24 hours

Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

# EMPLOYEES

, Driller

, Driller

, Driller

, Driller

# FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
		Electric Log Tops:	
		2325	De Chelly
		2525	Organ Rock
		4280	Hermosa
		5132	Ismay
		5284	Gothic Shale
		5306 (-808)	Desert Creek
		5441	Chimney Rock
FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

(OVER)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-359	
2. NAME OF OPERATOR The Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cortez, Colorado 81321		7. UNIT AGREEMENT NAME McElmo Creek Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2310' FSL & 660' FWL, Sec. 16, T41S, R25E, SLM		8. FARM OR LEASE NAME McElmo Creek Unit	
14. PERMIT NO.		9. WELL NO. MCU #R-23	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4498'		10. FIELD AND POOL, OR WILDCAT McElmo Creek Field	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 SW/4	
		12. COUNTY OR PARISH San Juan Cty.	
		13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

This workover consisted of a super frac and acidizing of existing Desert Creek perforations, 5344-5402'.

11/17/69 Pulled production equipment and set packer at 5224', tubing tail at 5232'.  
11/18/69 Treated with 3000 gal crude followed in succession and without loss of pressure by 9114 gal dispersion at 5 BPM, 6200 psi, 9,000 gal 28% acid at 12.5 BPM, 4900 psi and 2,500 gal water at 6 BPM, 1100 psi. ISIP - 0 psi, returned well to production.  
11/20/69 125 BO and 19 BWPD (13% cut).  
11/25/69 42 BO and 0 BWPD.  
12/1/69 66 BO and 0 BWPD.

18. I hereby certify that the foregoing is true and correct

SIGNED D. D. Kingman TITLE D. D. Kingman DATE 1/7/70  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

OGC/njh

\*See Instructions on Reverse Side

cc: State, USGS, Franques, Broussard, Hurlbut, WIO, File



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-359
2. NAME OF OPERATOR The Superior Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Drawer 'G', Cortez, Colorado		7. UNIT AGREEMENT NAME McElmo Creek Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2130' FSL & 660' FWL, Sec. 16, T41S, R25E, SLM		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. MCU #R-23
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4497' KB		10. FIELD AND POOL, OR WILDCAT McElmo Creek Field
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW SW Sec. 16, T41S, R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

11/13/72 Treated all Desert Creek perms 5344-5402' with 500 gal. 15% regular acid.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

(This space for Federal or State office use)

TITLE

District Engineer

DATE

2/27/73

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

OGC/njh

\*See Instructions on Reverse Side

cc: State, USGS, Franques, Mosley, Hurlbut, WIO, File

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

9. WELL NO.

MCU #R-23

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 16, T41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Drawer 'G', Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface

2130' FSL, 660' FWL, Section 16

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4497' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Convert to Water Injection

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1. Perforate Ismay 5244-48, 5251-57, and 5263-76 with 2 JPF.

2. Set retrievable Bridge Plug at 5320'.

3. Stimulate Ismay with 5000 gal 28% acid.

4. Test Ismay injectivity.

5. Pull Bridge Plug.

6. (a) If Ismay injection is satisfactory, dual complete for Ismay and Desert Creek injection with two strings of tubing.

(b) If Ismay injection is unsatisfactory, commingle Ismay and Desert Creek for injection through a common string of tubing.

APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION

DATE APR 11 1974

BY [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE

Engineer

DATE

4/8/74

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS (4), State (2)  
Franques, Mosley, Hurlbut, \*See Instructions on Reverse Side  
File 4/8/74

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT  
(Other in  
verse side)APPLICATE\*  
tions on re-Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ WIW

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Drawer 'G', Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

2130' FSL &amp; 660' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4497' KB

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

McElmo Creek Unit

8. FARM OR LEASE NAME

McElmo Creek Unit

9. WELL NO.

MCU #R-23

10. FIELD AND POOL, OR WILDCAT

McElmo Creek Field

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 16, T41S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Conversion to Water Injection X

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Set BP above existing perfs (D.C. Zone II).

Perforated Ismay 5244-48, 5251-57' and 5263-76' with 2 jets per ft.

Acidized Ismay perfs with 5000 gals 28% acid. MP 3500 psi. Inj. rate 3 BPM.

Pulled BP and put well on commingled Ismay and Desert Creek Zone II injection.

Injection rate - 1060 BWPd at 2050 psi.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. D. Kingman

TITLE

District Engineer

DATE 7/26/74

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

RLH/njh

cc: USGS. State, Franques, Mosley, Nav. Tribe, WIO, File

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME  
McELMO CREEK UNIT

8. FARM OR LEASE NAME

9. WELL NO.  
#R-23

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

SEC. 16, T41S, R25E, SLM

12. COUNTY OR PARISH 13. STATE  
SAN JUAN UTAH

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐ INJECTION WELL

2. NAME OF OPERATOR  
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR  
P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

2130' FSL, 660' FWL, SECTION 16

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB: 4498'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☒

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

- 1-17-85: MIRU. Bled well down. ND wellhead. NU BOP's. POH & LD tbq & pkr.  
1-18-85: RIH w/ bit, scraper & 2-7/8" workstring. Tagged PBTD at 5441' & POH. RIH w/ RBP, pkr & 2-7/8" tbq.  
1-19-85: Tagged bottom at 5360' (81' high). POH w/ tbq, pkr & RBP. RIH w/ bit, scraper & tbq. Drilled out to 5447' & POH. RIH w/ RBP, pkr & tbq.  
1-21/22-85: Selectively acidized the L. Ismay perms (5244'-76' O/A) & Desert Creek (5344'-5402' O/A) w/ 8000 gals 28% HCL.  
1-23-85: Flowed well. POH w/ tbq, pkr & RBP.  
1-24/2-4-85: Ran CO<sub>2</sub> injection equipment. Set permanent pkr at 5225'. ND BOP's. NU wellhead. RDMO.  
2-5-85: Placed well on water injection.

RECEIVED

FEB 11 1985

DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

T. Greg Merriam

(This space for Federal or State office use)

Sr. Operations Engineer

DATE 2-7-85

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

VIC Manager

DATE

2/19/85

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR  
(Other instructions  
verse side)

TE  
F-

Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME  
MCELMO CREEK

8. FARM OR LEASE NAME  
MCELMO CREEK

9. WELL NO.  
R-23

10. FIELD AND POOL, OR WILDCAT  
GREATER ANETH

11. SEC. T. R. N., OR BLK. AND  
SUBST. OR AREA  
Sec. 16, T41S, R25E, SLM

12. COUNTY OR PARISH  
SAN JUAN

13. STATE  
UTAH

14. PERMIT NO. 43-037-15977

15. ELEVATIONS (Show whether SF, ST, OR, etc.)  
4483 GL DIVISION OF OIL  
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF


FRACURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

CELL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE


SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACURE TREATMENT

SHOOTING OR ACIDIZING

(Other)


REPAIRING WELL

ALTERING CASING

ABANDONMENT\*


Construct Cathodic Protection System

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

To maximize effective corrosion control of metallic piping and structures down hole and above ground, Mobil Oil Corporation, Agent for Superior Oil Company, proposes to construct an electrified cathodic protection system consisting of a subsurface graphite anode bed connected to an above ground rectifier which has a lead connected to the well casing.

The construction will consist of a trench, 140' long, 6' deep and 2' wide in the old reserve pit area of the well location. All construction will be confined to existing disturbed area of well location. Existing electrical power to the well will be used for this cathodic protection system.

18. I hereby certify that the foregoing is true and correct

SIGNED

*Clyde J. Benally*

TITLE Sr. Regulatory Coordinator

DATE 11/15/85

G. J. Benally

(This space for Federal or State office use)

APPROVED BY

*Clayton Fought*

TITLE

*W. C. Manager*

DATE

*12-3-85*

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-359

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME  
MCCLMO CREEK

8. FARM OR LEASE NAME

9. WELL NO.  
R-2310. FIELD AND POOL, OR WILDCAT  
GREATER ANETH11. SEC., T., R., M., OR BLK. AND  
SUBST. OR AREA  
Sec 16, T41S, R25E12. COUNTY OR PARISH 13. STATE  
SAN JUAN UTAH

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

JAN 14 1986

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> INJECTION WELL	
2. NAME OF OPERATOR MOBIL OIL CORP AS AGENT OF SUPERIOR OIL & GAS	
3. ADDRESS OF OPERATOR P. O. DRAWER 'G', CORTEZ, CO 81321	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2130' FSL, 660' FWL	
14. PERMIT NO. 43-037-15977	15. ELEVATIONS (Show whether OF, ST, OR, etc.) DF: 4496'

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> CO2 INJECTION	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Carbon Dioxide injection was initiated in this well on Feb 28, '85

18. I hereby certify that the foregoing is true and correct

SIGNED D. C. CollinsTITLE Sr Staff Op EngrDATE 1.9.86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

# Mobil Oil Corporation

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

May 14, 1986

Utah Board of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: R. J. Firth  
Associate Director

RECEIVED  
MAY 16 1986

DIVISION OF  
OIL, GAS & MINING

## SUPERIOR OIL COMPANY MERGER

Dear Mr. Firth:

On September 20, 1984, The Superior Oil Company (Superior) became a wholly owned subsidiary of Mobil Corporation. Since January 1, 1985, Mobil Oil Corporation (MOC), another wholly owned subsidiary of Mobil Corporation, has acted as agent for Superior and has operated the Superior-owned properties.

On April 24, 1986, Superior was merged with Mobil Exploration and Producing North America Inc. (MEPNA), which is also a wholly owned subsidiary of Mobil Corporation. MEPNA is the surviving company of the merger.

This letter is to advise you that all properties held in the name of Superior will now be held in the name of MEPNA; and that these properties will continue to be operated by MOC as agent for MEPNA.

Attached is a listing of all wells and a separate listing of injection-disposal wells, Designation of Agent and an organization chart illustrating the relationships of the various companies. If you have any questions or require additional documentation of this merger, please feel free to contact me at the above address or (303) 298-2577.

Very truly yours,



R. D. Baker  
Environmental Regulatory Manager

CNE/rd  
CNE8661

WESTERN REGULATORY WELL COMPLIANCE DATA FILE (PAGE 1 OF 2)  
 FOR THE CORTEZ SUPERVISOR AREA  
 FOR THE GREATER ANETH FIELD 05/13/86

PROPERTY NAME	WELL NAME	COUNTY	STATE	SEC	TOWNSHIP	RNG	WELL TYPE	S T API NUMBER	FEDERAL LEASE NUMBER	STATE NUMBER	UNIT NUMBER
MC ELKO CREEK	N-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ	OP 43-037-15965	14-20-603-372		96-004190
	N-13 ✓	SAN JUAN	UT	NW	NW	05-41S-25E	INJ	OP 43-037-15966	14-20-603-372		96-004190
	N-15 ✓	SAN JUAN	UT	SW	NW	05-41S-25E	INJ	OP 43-037-05671	14-20-603-372		96-004190
	N-17 ✓	SAN JUAN	UT	NW	NW	08-41S-25E	INJ	OP 43-037-05597	14-20-603-263		96-004190
	N-19 ✓	SAN JUAN	UT	NW	SW	08-41S-25E	INJ	OP 43-037-05540	14-20-603-263		96-004190
	N-21 ✓	SAN JUAN	UT	NW	NW	17-41S-25E	INJ	OP 43-037-05492	14-20-603-263		96-004190
	N-23 ✓	SAN JUAN	UT	NW	SW	17-41S-25E	INJ	OP 43-037-16364	14-20-603-263		96-004190
	O-12 ✓	SAN JUAN	UT	SE	SW	32-40S-25E	INJ	OP 43-037-16371	14-20-603-372		96-004190
	O-14 ✓	SAN JUAN	UT	SE	NW	05-41S-25E	INJ	OP 43-037-16365	14-20-603-372		96-004190
	O-16 ✓	SAN JUAN	UT	SE	SW	05-41S-25E	INJ	OP 43-037-15969	14-20-603-372		96-004190
	O-18 ✓	SAN JUAN	UT	SE	NW	08-41S-25E	INJ	OP 43-037-05585	14-20-603-263		96-004190
	P-07 ✓	SAN JUAN	UT	NW	SE	29-40S-25E	INJ	OP 43-037-05828	I-149-IND-8839-A		96-004190
	P-09 ✓	SAN JUAN	UT	NW	NE	32-40S-25E	INJ	OP 43-037-16367	14-20-603-372		96-004190
	P-11 ✓	SAN JUAN	UT	NW	SE	32-40S-25E	INJ	OP 43-037-15971	14-20-603-372		96-004190
	P-13 ✓	SAN JUAN	UT	NW	NE	05-41S-25E	INJ	OP 43-037-16368	14-20-603-372		96-004190
	P-15 ✓	SAN JUAN	UT	NW	SE	05-41S-25E	INJ	OP 43-037-16340	14-20-603-372		96-004190
	P-17 ✓	SAN JUAN	UT	NW	NE	08-41S-25E	INJ	OP 43-037-15976	14-20-603-263		96-004190
	P-19 ✓	SAN JUAN	UT	NW	SE	08-41S-25E	INJ	OP 43-037-05555	14-20-603-263		96-004190
	P-21 ✓	SAN JUAN	UT	NW	NE	17-41S-25E	INJ	OP 43-037-05487	14-20-603-263		96-004190
	P-23 ✓	SAN JUAN	UT	NW	SE	17-41S-25E	INJ	OP 43-037-16370	14-20-603-263		96-004190
	Q-12 ✓	SAN JUAN	UT	SE	SE	32-40S-25E	INJ	OP 43-037-05720	14-20-603-372		96-004190
	Q-14 ✓	SAN JUAN	UT	SE	NE	05-41S-25E	INJ	OP 43-037-15974	14-20-603-372		96-004190
	Q-16 ✓	SAN JUAN	UT	SE	SE	05-41S-25E	INJ	OP 43-037-15975	14-20-603-372		96-004190
	R-11 ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ	SI 43-037-05741	14-20-603-2057		96-004190
	R-11A ✓	SAN JUAN	UT	NW	SW	33-40S-25E	INJ	OP 43-037-30179	14-20-603-2057		96-004190
	R-13 ✓	SAN JUAN	UT	NW	NW	04-41S-25E	INJ	OP 43-037-05709	14-20-603-2057		96-004190
	R-17 ✓	SAN JUAN	UT	NW	NW	09-41S-25E	INJ	OP 43-037-05602	14-20-603-359		96-004190
	R-19 ✓	SAN JUAN	UT	NW	SW	09-41S-25E	INJ	OP 43-037-05554	14-20-603-359		96-004190
	R-21 ✓	SAN JUAN	UT	NW	NW	16-41S-25E	INJ	OP 43-037-16374	14-20-603-359		96-004190
	R-23 ✓	SAN JUAN	UT	NW	SW	16-41S-25E	INJ	OP 43-037-15977	14-20-603-359		96-004190



CO<sub>2</sub> inj. Feb. '85

Converted 1974

UTAH DIVISION OF OIL, GAS AND MINING  
CASING-BRADENHEAD TESTOPERATOR: MEPNAFIELD: Greater Aneth LEASE: McElmo CreekWELL # R-23 SEC. 16 TOWNSHIP 41S RANGE 25ESTATE (FED) FEE DEPTH 5480 TYPE WELL INJW MAX. INJ. PRESS. 2800 psi  
PBTD 5447 Water Tracer Log 4/12/86 4000 BWPDTEST DATE 9/9/86

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>	<u>13<sup>3</sup>/<sub>8</sub></u>	<u>85'</u>	<u>125 SX</u>	<u>0#</u>	<u>Injecting CO<sub>2</sub></u>	
<u>INTERMEDIATE</u>	<u>8<sup>5</sup>/<sub>8</sub></u>	<u>1353</u>	<u>900 SX</u>		<u>No rate at time</u>	
<u>PRODUCTION</u>	<u>5<sup>1</sup>/<sub>2</sub></u>	<u>5480</u>	<u>300 SX</u>	<u>0#</u>		
<u>TUBING</u>	<u>2<sup>3</sup>/<sub>8</sub></u>			<u>2700#</u>		

Baker Lok-Set at 5197

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS	FUTURE
<u>SURFACE</u>						
<u>INTERMEDIATE</u>						
<u>PRODUCTION</u>						
<u>TUBING</u>						

RECEIVED  
MAY 17 1990

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OFFICE OF  
OIL AND GAS PROGRAMS

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well ☒ Gas Well ☐ Other: Injection Well

2. Name of Operator  
MOBIL OIL CORPORATION

3. Address of Operator  
P. O. DRAWER G, CORTEZ, CO. 81321

4. Location of Well

2130' FWL, 660' FWL SEC 16, T41S, R25E

14. Permit No. 43-037-15977  
15. Elevations (DF, RT, GR)  
DF 4496'

5. Lease Designation &  
Serial No.  
4303715977

6. If Indian, Allottee or Tribe Name  
NAVAJO

7. Unit Agreement Name  
McELMO CREEK UNIT

8. Farm or Lease Name

9. Well No.  
R-23

10. Field and Pool, or Wildcat  
GREATER ANETH

11. Sec. T,R,M or BLK and  
Survey or Area  
NW/SW SEC 16, T41S, R25E

12. County, Parish 13. State  
SAN JUAN UTAH

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:

Test Water Shut-off ☐ Pull or Alter Casing ☐  
Fracture Treat ☐ Multiple Complete ☐  
Shoot or Acidize ☐ Abandon \* ☐  
Repair Well ☐ Change Plans ☐  
(Other) TEMPORARILY ABANDON ☐

Subsequent Report of:

Water Shut-off ☐ Repairing Well ☐  
Fracture Treatment ☐ Altering Casing ☐  
Shooting/Acidizing ☐ Abandonment \* ☐  
(Other) ☐

(NOTE: Report results of multiple completion on  
Well Completion or Recompletion Report and Log Form.)

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) \*

Mobil Oil Corporation requests permission to temporarily abandon McElmo Creek Unit injection well # R-23 due to poor injection performance. The well will be reviewed for workover or plug and abandonment. A decision on this well should be made before the end of this year.

18. I hereby certify that the foregoing is true and correct

Signed: M. T. Balog Title: Staff Operations Engineer Date: 5/10/90

UIC	
GLH	<input checked="" type="checkbox"/>
DJJ	<input checked="" type="checkbox"/>
BGH	<input checked="" type="checkbox"/>
COMPUTER	<input type="checkbox"/>
MICROFILM	<input type="checkbox"/>
FILE	<input type="checkbox"/>

OIL AND GAS	
OPM	<input checked="" type="checkbox"/>
2-JRB	<input checked="" type="checkbox"/>
DTG	<input checked="" type="checkbox"/>
3-TAS	<input checked="" type="checkbox"/>
3-MICROFILM	<input checked="" type="checkbox"/>
4-UIC FILE	<input checked="" type="checkbox"/>

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <u>Injection Well</u>	5. Lease Designation and Serial No. <u>14-20-603-359</u>
2. Name of Operator <u>MOBIL OIL CORPORATION</u>	6. If Indian, Allottee or Tribe Name <u>NAVAJO TRIBAL</u>
3. Address and Telephone No. <u>%Mobil Exploration &amp; Producing U.S. Inc.</u> <u>P.O. Box 633 Midland, Texas 79702</u>	7. If Unit or CA, Agreement Designation <u>McELMO CREEK</u>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <u>2130' FWL, 660' FWL Sec. 16, T41S, R25E NWSW</u>	8. Well Name and No. <u>R-23</u>
	9. API Well No. <u>43-037-15977</u>
	10. Field and Pool, or Exploratory Area <u>GREATER ANETH</u>
	11. County or Parish, State <u>SAN JUAN, UTAH</u>

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Extension for T.A.</u> status
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Mobil requests permission to extend TA status. This well is being evaluated for conversion to a producer.

RECEIVED

JUL 18 1991

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed <u>Shirley L. Adair</u>	Title _____	Date <u>7-12-91</u>
(This space for Federal or State office use)		
Approved by _____	Title _____	Date _____
Conditions of approval, if any: _____		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

**MOBIL OIL CORPORATION**

3. Address and Telephone No.

**P O BOX 633, MIDLAND TX 79702**

**(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2130' FWL, 660' FWL SEC. 16, T41S, R25E NWSW**

5. Lease Designation and Serial No.  
**14-20-603-359**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation

**McELMO CREEK**

8. Well Name and No.

**R-23**

9. API Well No.

**43-037-15977**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN, UTAH**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **EXTENSION FOR T.A.**  
**STATUS**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**MOBIL REQUESTS PERMISSION TO EXTEND TA STATUS. THIS WELL IS BEING EVALUATED FOR CONVERSION TO A PRODUCER.**

7-14-92  
*Shirley Todd*

RECEIVED

JUL 08 1992

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed

*Shirley Todd* SHIRLEY TODD

Title

**ENVIR. & REG. TECH**

Date

**7-2-92**

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
14-20-603-359

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation  
McELMO CREEK

8. Well Name and No.  
R-23

9. API Well No.  
43-037-15977

10. Field and Pool, or Exploratory Area  
GREATER ANETH

11. County or Parish, State  
SAN JUAN, UTAH

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other INJECTION WELL

2. Name of Operator

MOBIL OIL CORPORATION

FEB 12 1993

3. Address and Telephone No.

P O BOX 633, MIDLAND TX 79702

(915) 688-2585

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2130' FWL, 660' FWL SEC. 16, T41S, R25E NWSW

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other EXTENSION FOR T.A. STATUS  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

MOBIL REQUESTS PERMISSION TO EXTEND T.A. STATUS. THIS WELL IS BEING EVALUATED FOR CONVERSION TO A PRODUCER.

shut in

THIS APPROVAL EXPIRES JUL 09 1993

RECEIVED  
BLM  
JUL 9 1993  
12:12 PM  
BLM

14. I hereby certify that the foregoing is true and correct

Signed Shirley Todd SHIRLEY TODD

Title ENVIR. & REG. TECH

Date 7-2-92

(This space for Federal or State office use)

APPROVED

Approved by  
Conditions of approval, if any:

Title

DATE 7-20-1992

AREA MANAGER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

OPERATOR

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

**MOBIL OIL CORPORATION**

3. Address and Telephone No.

**P O BOX 633 MIDLAND, TX 79702**

**(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2130' FSL, 660' FWL SEC. 16, T41S, R25E**

**FORM APPROVED**

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

**14-20-603-359**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation

**MCELMO CREEK UNIT**

8. Well Name and No.

**R-23**

9. API Well No.

**43-037-15977**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN, UTAH**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other **SHUT-IN EXTENSION**

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**MOBIL REQUESTS PERMISSION TO EXTEND SHUT-IN STATUS. THIS WELL HAS BEEN EVALUATED FOR PLUG AND ABANDONMENT FOR 4TH QUARTER 1993.**

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 6-22-93

BY: [Signature]

**RECEIVED**

**JUN 21 1993**

**DIVISION OF  
OIL GAS & MINING**

14. I hereby certify that the foregoing is true and correct

Signed

Shirley Todd

**SHIRLEY TODD**

Title

**ENV. & REG. TECHNICIAN**

Date

**6-28-93**

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

**MOBIL EXPLORATION & PRODUCING U.S. INC.**

3. Address and Telephone No.

**P O BOX 633 MIDLAND, TX 79702**

**(915) 688-2585**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2130' FSL, 660' FWL SEC. 16, T41S, R25E**

5. Lease Designation and Serial No.

**14-20-603-359**

6. If Indian, Allottee or Tribe Name

**NAVAJO TRIBAL**

7. If Unit or CA, Agreement Designation

**MCELMO CREEK UNIT**

8. Well Name and No.

**R-23**

9. API Well No.

**43-037-15977**

10. Field and Pool, or Exploratory Area

**GREATER ANETH**

11. County or Parish, State

**SAN JUAN, UTAH**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other \_\_\_\_\_

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**SEE ATTACHMENTS**

**RECEIVED**

**SEP 22 1993**

**ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

**DIVISION OF  
OIL, GAS & MINING**

DATE: 9/24/93

BY: [Signature]

14. I hereby certify that the foregoing is true and correct

Signed

Shirley Todd **SHIRLEY TODD**

Title **ENV. & REG. TECHNICIAN**

Date **9-16-93**

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

McElmo Creek Unit R-23  
Uneconomical Well

PLUG AND ABANDONMENT PROCEDURE

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
2. MI workover rig. Load well with lease water. If well is not dead, use 10 ppg brine. NU and PT BOP's. Pressure 5-1/2" casing to 1000 psi and bleed off three times to assist in retrieving packer. Pull 35,000 lbs tension over string weight and shear out Baker FH packer at 5119'. Rotate to the right 15 turns to release snap latch in Baker Model D packer at 5225'. Circulate hole to 10 ppg brine if necessary. POH laying down 2-3/8", 4.7 lb/ft J-55 EUE 8rd plastic coated tubing. Install thread protectors on tubing while laying down. Transport tubing to Mobil's Aneth field pipe yard. If packer does not come free, RIH with jet cutter on wireline and cut 2-3/8" tubing below FH packer and try to pull packer free. If packer still does not come free, make a chemical cut 1 joint above packer, POH laying down tubing. PU overshot, jars, and drill collars on 2-7/8" workstring and jar packer out of hole. RIH with 4-3/4" bit without nozzles, casing scraper for 5-1/2", 14 lb/ft casing and bulldog bailer on 2-7/8" workstring to top of Baker D packer at 5225' or to the top of fish. Pump into 5-1/2" casing to confirm that fluid can be pumped past Baker Model D packer. POH. RU wireline unit. RIH with cement retainer on wireline and set at 5030' EL. POH. RD wireline unit. RIH with star-guide stinger and 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring. Sting into cement retainer and pressure test backside to 200 psi and monitor. Establish an injection rate of 1-2 BPM using lease water. Mix and pump 5 bbls fresh water spacer, 102 cu ft of class B 15.6 ppg neat cement, 5 bbls of fresh water spacer. Displace cement to cement retainer using lease water. Do not exceed 2000 psi surface injection pressure. Pull out of cement retainer and reverse out hole to 9 ppg fresh water mud having a minimum viscosity of 50 sec/qt containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer.
3. PU to 4380' and spot 28 cu ft of class B 15.6 ppg neat cement from 4380'-4180'. Pull out of cement plug at less than 30 ft/min. WOC.
4. Tag top of cement plug with workstring. Cement top must be above 4230'. Spot additional cement as necessary. POH laying down all but 1245' of 2-7/8" workstring.
5. RIH with Servco K-mill or equivalent for 5-1/2", 14 lb/ft casing and drill collars as necessary on 2-7/8" workstring. Cut casing at 1245' and mill 1 ft to confirm cut. POH laying down all but 745' of workstring. Spear and recover 5-1/2", 14 lb/ft casing. If 5-1/2" casing string was recovered Go To Step No. 7.



6. If 5-1/2" casing string is cut but cannot be recovered. RIH with cement retainer on 500' of 2-3/8" CS Hydril tubing and 2-7/8" workstring and set at 1195'. PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 493 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to top of cement retainer at 1195'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 164 cu ft. Go To Step No. 8.
7. RIH with 500' of 2-3/8" CS Hydril tailpipe on 2-7/8" workstring to 1245'. Fill hole from 1245' to surface with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 445 cu ft.
8. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded to the top of the plate:

Mobil E&P U.S., Inc.  
McElmo Creek Unit #R-23  
Navajo Tribal Lease  
14-20-603-359  
2130' FSL, 660' FWL  
Sec. 16 - T41S - R25E  
San Juan Co., Utah

9. RDMD workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy  
Office Phone: 303/565-2208  
Home Phone: 303/564-9423

## McElmo Creek Unit # R-23

API # 43-037-15977

JOB OR AUTH. NO.

LOCATION 2130' FSL, 660' FWL Sec 16-T415-R25E

PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-603-359

BY S. S. Murphy

EXISTING

KB 4498'

GL 4483'

Top of Chicle at 1145'

13-3/8", 35.6# Armco SW at  
85' cont'd w/125 SXS to  
surface8-7/8", 24# J-55 Csg at  
1353' cont'd w/900 SXS  
to surface2-3/8", 4.7# J-55 EUE 8rd  
Plastic Coated Tbg.

TOC at 3748' (Calc.)

Top of Hermosa at 4280'

Baker 'FH' Pkr at 5119'

(30,000 lbs Shear)  
Top of Ismay at 5130'

Baker Flow/Off Tool w/1.81" F Andik

Baker B Downhole Shut-off Valve

Baker 'D' Pkr w/Anchor

Latch at 5225'

(Rotate to the right to release latch)

3 jts 2-3/8", 4.7# J-55 EUE 8rd Tbg  
(Plastic Coated)

PERFS

2SPF 5244-5248', 2SPF 5251-5257'

2SPF 5263-5276', 4SPF 5344-5392'

5395-5402' w/4SPF

Hole Size: 7-7/8"

5-1/2", 14# J-55 Csg

PBTD 5447' at 5480' cont'd w/300 SXS

TD 5480'

## McElmo Creek Unit # R-23

API # 43-037-15977

JOB OR AUTH. NO.

LOCATION 2130' FSL, 660' FWL Sec 16-T415-R25E

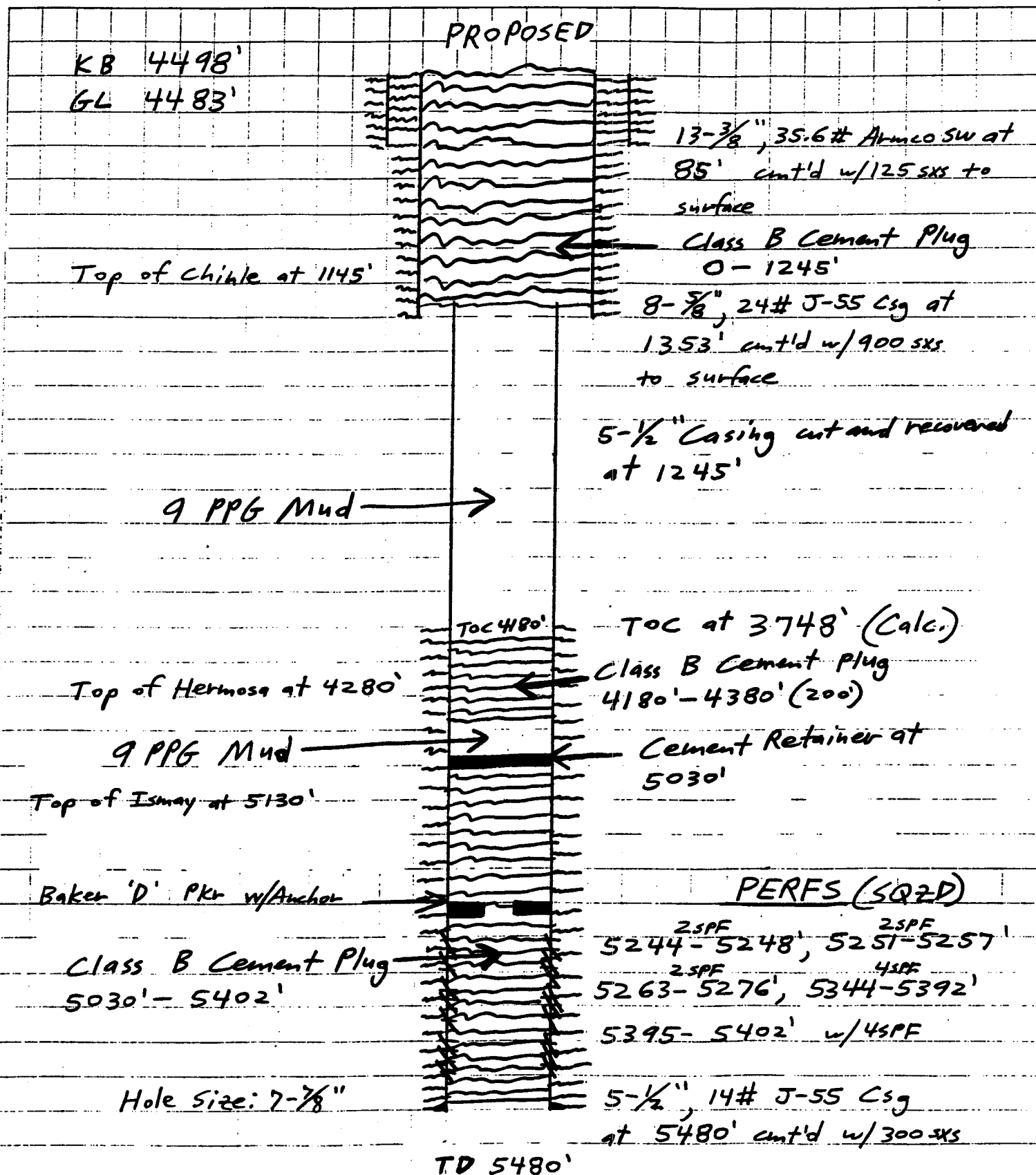
PAGE

SUBJECT Plug and Abandon

DATE 8/Sept/93

LEASE 14-20-603-359

BY S. S. Murphy



McElmo Creek Unit R-23

Uneconomical Well

REVISED

PLUG AND ABANDONMENT PROCEDURE

43.037.15977  
Sec 16 T41S R25E

NOTE: Any revisions to the following procedure are subject to Mobil and BLM approval.

1. Notify Mark Kelley with the Bureau of Land Management at 505/599-8900 and Jim Walker with the Navajo EPA at 505/368-4125 at least 48 hours prior to plugging the well. Document date/time BLM and EPA are notified and also document the date/time that BLM and/or EPA representatives are on location.
2. MI workover rig. Load well with lease water. If well is not dead, use 10 ppq brine. NU and PT BOP's. Pressure 5-1/2" casing to 1000 psi and bleed off three times to assist in retrieving packer. Pull 35,000 lbs tension over string weight and shear out Baker FH packer at 5119'. Rotate to the right 15 turns to release snap latch in Baker Model D packer at 5225'. Circulate hole to 10 ppq brine if necessary. POH laying down 2-3/8" 4.7 lb/ft J-55 EUE 8rd plastic coated tubing. Install thread protectors on tubing while laying down. Transport tubing to Mobil's Aneth field pipe yard. If packer does not come free, RIH with jet cutter on wireline and cut 2-3/8" tubing below FH packer AT 5160' and try to pull packer free. If packer still does not come free, make a chemical cut 1 joint above packer, POH laying down tubing. PU overshot, jars, and drill collars on 2-7/8" workstring and jar packer out of hole. RIH with 4-3/4" bit without nozzles and casing scraper for 5-1/2". 14 lb/ft casing to 5150' (Optional cleanout trip). POH. RU wireline unit. RIH with CIBP on wireline and set at 5144' EL. POH. RD wireline unit. RIH with workstring (2-3/8" OSH tailpipe optional) and tag top of CIBP. Spot 14 cu ft (96') of class B 15.6 ppq neat cement on top of CIBP. Pull out of cement and reverse out hole to 9 ppq fresh water mud having a minimum viscosity of 50 sec/cst containing a minimum of 15 lbs/bbl of sodium bentonite and a nonfermenting polymer. NOTE: If well is taking fluid after setting CIBP, cement plug will need to be tagged.
3. PU to 4380' and spot 28 cu ft of class B 15.6 ppq neat cement from 4380'-4180'. Pull out of cement plug at less than 30 ft/min. WOC.
4. Tag top of cement plug with workstring. Cement top must be above 4230'. Spot additional cement as necessary. POH laying down all but 1245' of 2-7/8" workstring.
5. RU wireline. RIH with 4" perforating gun loaded with deep penetrating charges at 4 SPF and perforate 1240' to 4150'.

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 10-14-93  
BY: JAN Matthews

RECEIVED

OCT 04 1993

DIVISION OF  
OIL, GAS & MINING

6. RIH with cement retainer on 2-7/8" workstring and set at 1195' (Wireline set cement retainer optional). PT backside to 200 psi and monitor. Establish injection rate of 1-2 BPM using 9 ppg mud taking returns on 5-1/2" casing annulus. Mix and pump 493 cu ft of class B 15.6 ppg neat cement (includes 100 percent excess as required by BLM) and displace cement to cement retainer. Note: If get good uncontaminated cement returns, the pumping of cement can be discontinued. Pull out of cement retainer and reverse out with 9 ppg mud. POH and lay down drag block setting tool. RIH with 2-7/8" workstring (2-3/8" CSH tailpipe optional) to top of cement retainer at 1195'. Fill hole with class B 15.6 ppg neat cement in 400' stages, laying down workstring while POH. Calculated volume required to fill hole is 164 cu ft.
7. If top of casing strings are above ground level, cut off casing strings at ground level. Top off all casing annuli with cement. Use 1" spaghetti string if necessary to spot cement. Weld on a 1/4" steel plate having a 1/4" weep hole. Steel plate should cover all casing strings and have the following information welded or stamped on the top of the plate:

Mobil E&P U.S., Inc.  
McElmo Creek Unit #R-23  
Navajo Tribal Lease  
14-20-603-359  
2130' FSL. 660' FWL  
Sec. 16 - T41S - R25E  
San Juan Co., Utah

8. RDMO workover rig. Haul off salvaged equipment and clean location. Notify Shirley Todd with Mobil at 918/688-2585 when work is completed so that a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5) can be filed with the Bureau of Land Management.

Mobil Operations Engineer: Sean S. Murphy  
Office Phone: 303/565-2208  
Home Phone: 303/564-9423

McElmo Creek Unit # R-23API # 43-037-15977

JOB OR AUTH. NO.

LOCATION 2130' FSL, 660' FWL Sec 16-T415-R25E

PAGE

SUBJECT Plug and AbandonDATE 8/Sept/93LEASE 14-20-603-359BY S. S. Murphy

EXISTING

KB 4498'

GL 4483'

Top of Chicle at 1145'

13-3/8", 35.6# Armo SW at  
85' cont'd w/125 SXS to  
surface8-5/8", 24# J-55 Csg at  
1353' cont'd w/900 SXS  
to surface2-3/8", 4.7# J-55 EUE 8rd  
Plastic Coated Tbg.

TOC at 3748' (Calc.)

Top of Hermosa at 4280'

Baker 'FH' Pkr at 5119'

(30,000 lbs Shear)

Top of Ismay at 5130'

Baker Flow/Off Tool w/1.81" F and 1/2"

Baker B. Downhole Shut-off Valve

Baker 'D' Pkr w/Anchor

Latch at 5225'

(Rotate to the right to release latch)

3 jts 2-3/8", 4.7# J-55 EUE 8rd Tbg  
(Plastic Coated)

PERFS

5244-5248' <sup>2SPF</sup>, 5251-5257' <sup>2SPF</sup>5263-5276' <sup>2SPF</sup>, 5344-5392' <sup>4SPF</sup>

5395-5402' w/4SPF

Hole Size: 7-7/8"

5-1/2", 14# J-55 Csg

PBTD 5447' at 5480' cont'd w/300 SXS

TD 5480'

McElmo Creek Unit # R-23API # 43-037-15977JOB OR AUTH. NO.LOCATION 2130' FSL, 660' FWL Sec 16-T415-R25EPAGESUBJECT Plug and AbandonDATE 8/Sept/93LEASE 14-20-603-359BY S. S. Murphy

PROPOSED

KB 4498'

GL 4483'

Cmt Retainer  
at 1195'

Top of Chible at 1145'

PERFS AT 1241-1245'

5.920 w/ 493 cmt  
cmt13-3/8", 35.6# Armo SW at  
85' cmt'd w/ 125 sxs to  
surfaceClass B Cement Plug  
0-1245'8-7/8", 24# J-55 Csg at  
1353' cmt'd w/ 900 sxs  
to surface

9 PPG Mud →

TOC 4180'

Top of Hermosa at 4280'

TOC at 3748' (Calc.)  
Class B Cement Plug  
4180'-4380' (200')

9 PPG Mud →

Top of Ismay at 5130'

CIBP at 5144' w/ 96'  
cmt on top

Baker 'D' PKR w/ Anchor

PERFS

2SPF 5244-5248', 2SPF 5251-5257'

2SPF 5263-5276', 4SPF 5344-5392'

5395-5402' w/ 4SPF

Hole Size: 7-7/8"

5-1/2", 14# J-55 Csg  
at 5480' cmt'd w/ 300 sxs

TD 5480'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other INJECTION	5. Lease Designation and Serial No. 14-20-603-359
2. Name of Operator MOBIL EXPLORATION & PRODUCNG U.S. INC.	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. P.O. BOX 633, MIDLAND TX 79702 (915) 688-2585	7. If Unit or CA, Agreement Designation MCELMO CREEK UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2130' FSL, 660' FWL, SEC. 16, T41S, R25E	8. Well Name and No. R-23
	9. API Well No. 43-037-15977
	10. Field and Pool, or Exploratory Area GREATER ANETH
	11. County or Parish, State SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other _____	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

10/29 NOTIFY BLM - LEONARD BIXLER, MIRUPU - ATTEMPT TO FLOW DOWN WELL

11/01 LEONARD BIXLER ON LOCATION - CIBP SET AT 5144 - SPOT W/20 SX (24 CU FT) CLASS B 1.18 YIELD, 15.6 #/GAL - BALANCED PLUG AT 4380' (241') SPOT28 SX (33 CU FT) CLASS B 1.18 YIELD 15.6 #/GAL - PLUG FROM 4380 - 4139 (241')

11/02 LEONARD BIXLER - BLM, JIM WALKER - EPA, GARY YELLOWHAIR - EPA ON LOCATION - PERF W/4 SPF 1403 - 1407 - CMT RET AT 1320' - PUMP 300 SX CLASS B 1.18 YIELD, 15.6 #/GAL - CIRC GOOD CMT TO PIT - FILL WELLBORE FROM 1320 W/163 SX CLASS B CMT IN 400' STAGES. DIG OUT WELL HEAD - CUT OFF WELL HEAD

WELD ON PLATE, EXTENSION & SURFACE INFORMATION PLATE

RECEIVED

NOV 23 1993

DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed S. Bayer for SHIRLEY TODD

Title ENVIRONMENTAL & REGULATORY TECH

Date 11/19/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side